

## Group 3E RECOGNITION DOCUMENT

A) Vehicle seen from 3/4 front



B) Vehicle seen from 3/4 rear



### 1. GENERAL

101. Manufacturer

**BMW**

102. Commercial name(s) - Model and type

**135i COUPE**

103. Engine capacity

**2979** cm<sup>3</sup> Corrected engine capacity **2979** x **1.7** = **5064** cm<sup>3</sup>

104. Type of car construction

a) Type

separate chassis

monocoque

b) Material of chassis / bodyshell

**STEEL**

106. Number of seats

**4**

### 2. DIMENSIONS, WEIGHT

Tare Weight

**1455** kg

RVD CPA Number. **33113-830536**

Minimum Racing Weight

**1451** kg

202. Overall length

**4360** mm ± 1 %

203. Maximum overall width

**1748** mm ± 1 % Where measured \_\_\_\_\_

204. Width of bodywork

a) At front axle

**1760** mm ± 1 %

b) At rear axle

**1760** mm ± 1 %

206. Wheelbase **2660** mm ± 1 %

207. Maximum track

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a) Front **1470** mm b) Rear **1497** mm

**3. ENGINE** (In case of rotary engine, see Art. 335 on additional form)

301. Location and position of the engine **FRONT - LONGITUDINAL**

302. Number of mounts **2**

Engine in its compartment



304. Supercharging

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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Maximum manifold pressure

**0.8 BAR**

Type and number of compressors

**TURBOCHARGER X 2**

305. Number and layout of cylinders

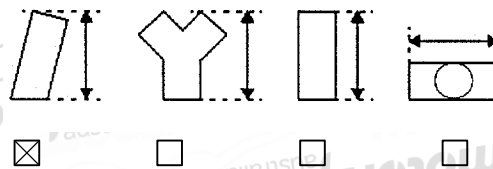
**6 - INLINE**

312. Cylinder block material

**ALUMINIUM ALLOY**

310. Maximum compression ratio

**10.2 : 1**



313. Sleeves a)

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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b) Material **CAST IRON**

<input type="checkbox"/> wet	<input checked="" type="checkbox"/> dry
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314. Bore

**84.0** +/- 0.1 mm

316. Stroke

**89.6** +/- 0.1 mm

321. Cylinderhead

a) Number **1**

b) Material

**ALUMINIUM ALLOY**

324. Fuel feed by injection : a) Make **BMW**

b) Model **DIRECT INJECTION (HPI)**

f) Position of Injectors:

<input type="checkbox"/> Manifold	<input checked="" type="checkbox"/> Cylinderhead
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325. Camshaft

a) Number

**2**

b) Location

**DOHC**

c) Drive system

**CHAIN**

f) Type of valve operation

**ROCKER ARM - VARIABLE (DOUBLE VANOS)**

327. Intake

a) Material of manifold

**PLASTIC**

b) Number of manifold elements

**1**

c) Number of valves per cylinder **2**



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**328. Exhaust**

- a) Material of manifold **STEEL**
- b) Number of manifold elements **3**
- d) Number of valves per cylinder **2**
- p) External Diameter of exhaust pipe between manifold and first silencer **60** mm ± 5%

**330. Ignition system**

- a) Type **ELECTRONIC**
- b) Number of plugs per cylinder **1**
- c) Number of distributors **N/A**
- d) Number of coils **6**

**331. Cooling system**

Capacity \_\_\_\_\_ L

- 332. Cooling fan**
- a) Number **1**
- b) Diameter of the fan **500** mm
- c) Material of the fan **PLASTIC**
- d) Number of blades **7**
- e) Type of drive **ELECTRIC**
- f) Automatic cut in 

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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**333. Lubrication system**

- a) Type **WET SUMP**
- b) Number of oil pumps **1**
- c) Total capacity **5.7 L + OIL COOLER**
- e) Location of the cooler(s) **RHF**
- f) Type of the cooler(s) **OIL/AIR**

**4. FUEL CIRCUIT**

**401. Fuel tank**

- b) Location **UNDER FLOOR**
- d) Total capacity **53** L

**402. Fuel pump(s)**

- a) 

<input checked="" type="checkbox"/> Eleectrical	<input checked="" type="checkbox"/> Mechanical
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- b) Number **2**
- d) Location **IN TANK /ENGINE BAY**

Fuel Pressure \_\_\_\_\_

**5. ELECTRICAL EQUIPMENT**

**502. Alternator**

- a) Number **1**
- b) Type **DC REGULATED**
- c) Drive system **BELT**
- d) Nominal power **80** Amp

**503. Retractable headlights**

- a) 

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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- b) Control system **N/A**

**6. POWER TRAIN**

**601. Driven wheels**

- front 

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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- rear 

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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**602. Clutch**

- a) Type **DRY – SINGLE PLATE**
- b) Control system **HYDRAULIC**



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**603. Gearbox**

a) Location **LONGITUDINAL – BEHIND ENGINE**

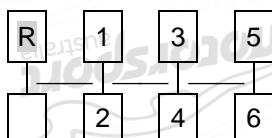
b) Make **BMW**

c) Type and location of control **MANUAL - FLOOR**

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<b>4.055:1</b>	_____	_____
2	_____	<b>2.396:1</b>	_____	_____
3	_____	<b>1.582:1</b>	_____	_____
4	_____	<b>1.192:1</b>	_____	_____
5	_____	<b>1.000:1</b>	_____	_____
6	_____	<b>0.872:1</b>	_____	_____
R	_____	<b>3.68</b>	_____	_____
Constant	_____	_____	_____	_____

f) Gear change gate



**604. Transfer box / Centre differential**

a) Ratios

**N/A**

c) Control system of transfer box

**N/A**

d) Type of central differential

**N/A**

**605. Final drive**

a) Type of final drive

**Front**

**N/A**

**Rear**

**HYPOLID**

b) Ratio

**N/A**

**3.08 (MANUAL ONLY)**

f) Oil Cooler

yes

no

yes

no

g) Cooler Type

**N/A**

**N/A**

**606. Shafts**

a) Type of longitudinal shafts

**PROPELLER WITH UNIVERSAL JOINTS**

b) Material of longitudinal shafts

**STEEL**

c) Type of transversal half-shafts

**SHAFT WITH CV JOINTS**

d) Material of transversal half-shafts

**STEEL**



**7. SUSPENSION**

**701. General**

	Front	Rear
a) Type of suspension	<b><u>MCPHERSON STRUT</u></b>	<b><u>INDEPENDENT - MULTILINK</u></b>
702. Helical springs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
a) Material	<b><u>STEEL</u></b>	<b><u>STEEL</u></b>
703. Leaf springs	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
a) Material	<b><u>N/A</u></b>	<b><u>N/A</u></b>
704. Torsion bars	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
a) Material	<b><u>N/A</u></b>	<b><u>N/A</u></b>

**705. Other type of suspension**

See description on additional form

**706. Stabiliser**

	Front	Rear
b) Effective diameter	<b><u>27</u></b> mm	<b><u>12</u></b> mm
c) Material	<b><u>STEEL</u></b>	<b><u>STEEL</u></b>

**707. Suspension Dampers**

	Front	Rear
a) Number per wheel	<b><u>1</u></b>	<b><u>1</u></b>
b) Type	<b><u>TELESCOPIC</u></b>	<b><u>TELESCOPIC</u></b>
c) Principle of operation	<b><u>HYDRAULIC</u></b>	<b><u>HUYDRAULIC</u></b>

**8. WHEELS**

**801. Wheels**

	Front	Rear
a) Diameter	<b><u>18"</u></b>	<b><u>18"</u></b>
b) Width	<b><u>7.5"</u></b>	<b><u>8.5"</u></b>
c) Offset	<b><u>+49</u></b> mm	<b><u>+52</u></b> mm

**803. Brakes**

a) Braking system

**HYDRAULIC**



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b) Number of master cylinders 1

c) Servo-brakes

yes  no

c1) Make and type **BMW VACCUUM**

	Front	Rear
e) Number of cylinders per wheel	<u>6</u>	<u>2</u>
f) <b>Drum brakes</b>		
f1) Internal diameter	<u>XXXX</u>	<u>XXXX</u>
f2) Number of linings per wheel	<u>XXXX</u>	<u>XXXX</u>
g) <b>Disc brakes</b>		
g1) Number of pads per wheel	<u>2</u>	<u>2</u>
g2) Number of calipers per wheel	<u>1</u>	<u>1</u>
g3) Caliper material	<u>ALUMINIUM</u>	<u>ALUMINIUM</u>
g4) Thickness of new disc	<u>26 ± 1 mm</u>	<u>22 ± 1 mm</u>
g5) External diameter of the disc	<u>338 ± 1.5 mm</u>	<u>324 ± 1.5 mm</u>
g9) Ventilated discs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

h) Parking brake: h1) Control system **CABLE**

h2) Location of lever **CABIN/FLOOR**

h3) On which wheels Effet sur roues

Front  Rear

**804. Steering**

a) Type

Front		Rear	
<b>RACK &amp; PINION</b>		<b>N/A</b>	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<b>HYDRAULIC</b>		<b>N/A</b>	

b) Servo-assistance

Type of Assistance

**9. BODYWORK**

**901. Interior**

a) Ventilation

yes  no

c) Air Conditioning

yes  no

b) Heating

yes  no

f) Optional sun roof

yes  no

f1) Type

**SLIDING**

f2)

Control system

**ELECTRIC**

g) Opening system for side windows

Front	Rear
<b>ELECTRIC</b>	<b>N/A</b>

X) Dashboard

Y) Sunroof





902. Exterior

a) Number of doors **2**

b) Tailgate  yes  no

c) Door material

Front	Rear
<b><u>STEEL</u></b>	<b><u>N/A</u></b>

d) Front bonnet material

**STEEL**

e) Rear bootlid / tailgate material

**STEEL**

f) Bodywork material

**STEEL**

h) Rear window material

**GLASS**

i) Rear quarter window material **GLASS**

k) Side window material

Front	Rear
<b><u>GLASS</u></b>	<b><u>GLASS</u></b>
<b><u>PLASTIC COMPOSITE</u></b>	<b><u>PLASTIC COMPOSITE</u></b>

l) Material of bumper

n) Exterior Rear wiper

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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**XIII) NON METALLIC PARTS OF THE BODY**

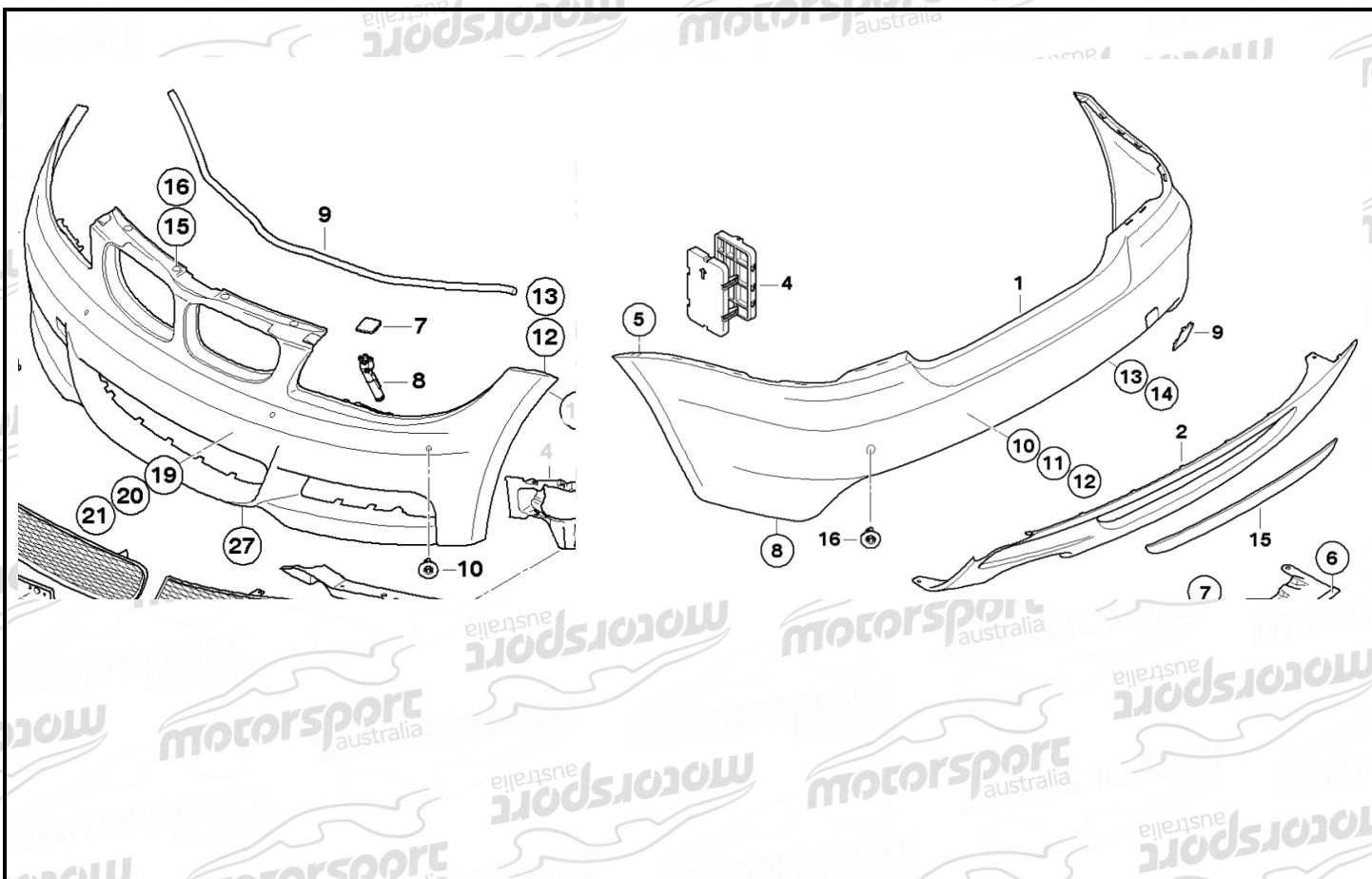
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Number	Part	Material
<b>1</b>	<b>Front Bumper</b>	<b>Plastic</b>
<b>2</b>	<b>Rear Bumper</b>	<b>Plastic</b>
<b>3</b>	<b>Rear Trim Panel</b>	<b>Plastic</b>





**COMPLEMENTARY INFORMATION**

**Alternative Automatic Gearbox**

**602. Clutch**

a) Type **N/A**

b) Control system **N/A**

**603. Gearbox**

a) Location **LONGITUDINAL - BEHIND ENGINE**

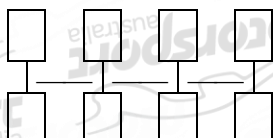
b) Make **ZF**

c) Type and location of control **AUTOMATIC - FLOOR**

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	—	<b>4.171:1</b>	—	—
2	—	<b>2.340:1</b>	—	—
3	—	<b>1.521:1</b>	—	—
4	—	<b>1.143:1</b>	—	—
5	—	<b>0.867:1</b>	—	—
6	—	<b>0.691:1</b>	—	—
R	—	<b>3.403:1</b>	—	—
Constant	—	—	—	—

f) Gear change gate



**604. Transfer box / Centre differential**

a) Ratios **N/A**

c) Control system of transfer box **N/A**

d) Type of central differential **N/A**

**605. Final drive**

a) Type of final drive

	Front	Rear
a) Type of final drive	<b>N/A</b>	<b>HYPID</b>
b) Ratio	<b>N/A</b>	<b>3.46 (AUTOMATIC ONLY)</b>
f) Oil Cooler	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
g) Cooler Type	<b>N/A</b>	<b>N/A</b>

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**ERRATA:**

Version 3-09-042B

Added Tare Weight

Added RVD number

Updated XIII)NON METALLIC PARTS OF THE BODY

Alternative Automatic gearbox added